

**AMENDMENT TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the applications:

**Listing of Claims:**

Claims 1-5 (canceled)

6. (currently amended) A vaccine composition comprising an immunologically protective amount of a first attenuated, non-reverting mutant *Salmonella* bacterium in which the *ssaT* and *ssaC* genes have been inactivated,

wherein said *ssaT* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 1 or 2, and wherein said *ssaC* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 5 or 6.

7. (currently amended) A vaccine composition comprising an immunologically protective amount of a first attenuated, non-reverting mutant *Salmonella* bacterium in which the *ssaT* and *ssaJ* genes have been inactivated ~~by deletion of a portion of the coding region of the gene;~~

wherein said *ssaT* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 1 or 2, and where said *ssaJ* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 3 or 4.

Claim 8 (canceled)

9. (currently amended) A vaccine composition of claim 6 ~~or 7~~ further comprising a second attenuated *Salmonella* bacterium in which one or more genes within the SPI2 region have been inactivated wherein said genes are selected from the group consisting of *ssaT*, *ssaJ*, *ssaC*, and *ssaM* and wherein,

said *ssaT* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 1 or 2, said *ssaJ* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 3 or 4, said *ssaC* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 5 or 6, and said *ssaM* gene ~~consists of~~ comprises the nucleic acid sequence of SEQ ID NO: 7 or 30.

Claims 10-28 (canceled)

29. (new) A vaccine composition of claim 7 further comprising a second attenuated *Salmonella* bacterium in which one or more genes within the SPI2 region have been inactivated wherein said genes are selected from the group consisting of *ssaT*, *ssaJ*, *ssaC*, and *ssaM* and wherein,

said *ssaT* gene comprises the nucleic acid sequence of SEQ ID NO: 1 or 2, said *ssaJ* gene comprises the nucleic acid sequence of SEQ ID NO: 3 or 4, said *ssaC* gene comprises the nucleic acid sequence of SEQ ID NO: 5 or 6, and said *ssaM* gene comprises the nucleic acid sequence of SEQ ID NO: 7 or 30.

30. (new) A vaccine of any one of claims 6, 7, 9 and 29, wherein said genes are inactivated by deletion of a portion of the coding region of the gene.

31. (new) A vaccine composition of any one of claims 6, 7, 9 and 29, wherein said first attenuated mutant *Salmonella* bacteria are selected from the group consisting of *S. dublin*, *S. choleraesuis*, *S. typhimurium*, and *S. newport*.

31. (new) A vaccine composition of claim 9 or 29, wherein said first and second attenuated mutant *Salmonella* bacteria are selected from the group consisting of *S. dublin*, *S. choleraesuis*, *S. typhimurium*, and *S. newport*.